

<b>TRANSMITTAL OF INFORMATION DISCLOSURE</b>			<b>Attny. Docket No.</b>
<b>STATEMENT UNDER 37 CFR § 1.97(b), 1.97(c), or 1.97(d)</b>			<b>2002B123/2</b>
<b>In Re Application of: Patrick Brant, et al</b>			
<b>U.S. Serial No.</b> 10/667,585	<b>Filing Date</b> 09/22/03	<b>Examiner</b> Unassigned	<b>Group Art Unit</b> 1713

Address to:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**37 CFR § 1.97(b)**

- ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

**37 CFR § 1.97(c)**

- ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of:

1. a Final Action under § 1.113,
2. a Notice of Allowance under § 1.311, or
3. an action that otherwise closes prosecution in the application,

and is accompanied by either:

- ☐ the fee as set forth in § 1.17(p), or
- ☐ the following statement under § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

**37 CFR § 1.97(d)**

- ☐ The Information Disclosure Statement submitted herewith is being filed after a Final Action under § 1.113, a Notice of Allowance under § 1.311, or an action that otherwise closes prosecution in the application, but before, or simultaneously with, the payment of the issue fee. Submitted herewith is the fee as set forth in § 1.17(p) and the following statement under 37 CFR § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

Applicant hereby request consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith.

☒ Legible copies of the non-U.S. references are enclosed.

☐ This application is a:

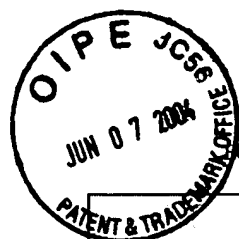
- ☐ Continuation / Divisional,
- ☐ Continuation-in-Part,

of U.S.S.N. \_\_\_\_\_. Copies of the cited references are ☐ enclosed;  
☐ not enclosed. References are available in the parent application(s) if not enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment, to Deposit Account Number 05-1712. A duplicate copy of this form is enclosed.

June 3, 04  
Date

Catherine L. Bell  
Catherine L. Bell  
Registration No. 35,444  
ExxonMobil Chemical Company  
Law Technology  
P.O. Box 2149  
Baytown, Texas 77522-2149  
(281) 834-5982 Voice  
(281) 834-2495 Facsimile

**INFORMATION DISCLOSURE STATEMENT***(Use several sheets if necessary)***ATTY. DOCKET NO.****2002B123/2 US****SERIAL NO.****10/667,585****APPLICANT****Patrick Brant, et al****FILING DATE****September 22, 2003****GROUP****1713****U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2,153,553	04/11/39	Fawcett et al.	260	94	
	AB	2,852,501	09/16/58	W.R. Richard, Jr. et al	260	94.9	
	AC	3,294,772	12/27/66	J.E. Cottle	260	93.7	
	AD	3,725,378	04/03/73	Chamberlin	260	94.9R	
	AE	4,135,044	01/16/79	Beals	526	64	
	AF	4,153,774	05/08/79	Boettcher et al.	526	352.2	
	AG	4,530,914	07/23/85	Ewen et al.	502	113	
	AH	4,794,004	12/27/88	Pfleger et al.	526	64	
	AI	4,962,262	10/09/90	Winter et al.	585	512	
	AJ	5,026,798	06/25/91	Canich	526	64	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AK	CA 2 103 694	02/09/94	Canada	C08F	004/654		
	AL	CA 2 118 711	03/18/93	Canada	C08F	10/06		
	AM	DE 41 30 299 A1	03/18/93	Germany	C08F	10/06	X	
	AN	EP 0 129 368 B2	04/03/02	Europe	C08F	10/00		
	AO	EP 0 480 190 B1	04/15/92	Europe	C08F	10/06		
	AP	EP 0 603 232 B1	09/02/92	Europe	C08F	10/06		

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

**INFORMATION DISCLOSURE STATEMENT***(Use several sheets if necessary)***ATTY. DOCKET NO.****2002B123/2 US****SERIAL NO.****10/667,585****APPLICANT****Patrick Brant, et al****FILING DATE****September 22, 2003****GROUP****1713****U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,081,322	01/14/92	Winter et al.	585	9	
	AB	5,084,534	01/28/92	Welborn, Jr. et al.	526	160	
	AC	5,096,867	03/17/92	Canich	502	103	
	AD	5,272,236	12/21/93	Lai et al.	526	348.5	
	AE	5,324,800	06/28/94	Welborn, Jr. et al.	526	160	
	AF	5,326,835	07/05/94	Ahvenainen et al.	526	64	
	AG	5,382,630	01/17/95	Stehling et al.	525	240	
	AH	5,382,631	01/17/95	Stehling et al.	525	240	
	AI	5,391,654	02/21/95	Ahvenainen et al.	526	64	
	AJ	5,408,017	04/18/95	Turner et al.	526	134	
	AK	5,416,153	05/16/95	Winter et al.	524	489	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	EP 0 846 696 A1	06/10/98	Europe	C07F	17/00		
	AM	EP 0 987 279 A1	03/22/00	Europe	C08F	10/06		
	AN	EP 1 008 607 B1	12/17/03	Europe	C08F	210/06		
	AO	EP 1 195 391 A1	04/10/02	Europe	C08F	110/06		
	AP	JP 342 1202	04/28/98	Japan (w/Abstract)	C08F	2/02	X	

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

**INFORMATION DISCLOSURE STATEMENT***(Use several sheets if necessary)***ATTY. DOCKET NO.****2002B123/2 US****SERIAL NO.****10/667,585****APPLICANT****Patrick Brant, et al****FILING DATE****September 22, 2003****GROUP****1713****U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,652,308	07/29/97	Merrill et al.	525	211	
	AB	5,693,730	12/02/97	Kuber et al.	526	127	
	AC	5,723,560	03/03/98	Canich	526	351	
	AD	5,723,705	03/03/98	Herrmann et al.	585	9	
	AE	5,756,608	05/26/98	Langhauser et al.	526	127	
	AF	5,840,644	11/24/98	Kuber et al.	502	117	
	AG	5,866,663	02/02/99	Brookhart et al.	526	170	
	AH	5,882,750	03/16/99	Mink et al.	428	35.7	
	AI	5,936,053	08/10/99	Fukuoka et al.	526	351	
	AJ	5,962,719	10/05/99	Winter et al.	556	53	
	AK	5,965,674	10/12/99	Moen et al.	526	61	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	JP 1998-110003 A	04/28/98	Japan (w/Abstract)	C08F	2/02		
	AM	JP 96-208535	02/17/98	Japan (w/Abstract)	C07C	B01J		
	AN	JP 0-216916 A	09/08/97	Japan (w/Abstract)	C08F	210/16		
	AO	WO 88/04672 A1	06/30/88	PCT	C08F	210/02		
	AP	WO 92/14766 A1	09/03/92	PCT	C08F	6/02		

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>	ATTY. DOCKET NO.	SERIAL NO.
	2002B123/2 US	10/667,585
	APPLICANT	
	Patrick Brant, et al	
	FILING DATE	GROUP
	September 22, 2003	1713

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,969,062	10/19/99	Moll et al.	526	127	
	AB	5,998,547	12/07/99	Hohner	525	301	
	AC	6,084,041	07/04/00	Andtsjo et al.	526	64	
	AD	6,143,682	11/07/00	Fisher	502	103	
	AE	6,160,072	12/12/00	Ewen	526	351	
	AF	6,218,488	04/17/01	Schiffino et al.	526	133	
	AG	6,225,432	05/01/01	Weng et al.	526	351	
	AH	6,300,451	10/09/01	Mehta et al.	526	339	
	AI	6,355,741	03/12/02	Marechal	526	64	
	AJ	6,562,914	05/13/03	Andtsjo et al.	526	64	
	AK	2002/013440	01/31/02	Agarwal et al.	526	335	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO 93/05082 A1	06/10/93	PCT	C08F	10/00		
	AM	WO 93/11171 A1	06/10/93	PCT	C08F	10/00		
	AN	WO 94/14856 A1	07/07/94	PCT	C08F	4/646		
	AO	WO 96/00246 A1	01/04/96	PCT	C08F	10/02		
	AP	WO 96/12744 A1	05/02/96	PCT	C08F	210/18		
	AQ	WO 96/34023 A1	10/31/96	PCT	C08F	210/00		

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>					ATTY. DOCKET NO.		SERIAL NO.	
					2002B123/2 US		10/667,585	
					APPLICANT			
					Patrick Brant, et al			
					FILING DATE		GROUP	
		September 22, 2003		1713				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AA	WO 97/11098 A1	03/27/97	PCT	CO8F	210/00		
	AB	WO 97/13790 A1	04/17/97	PCT	C08F	2/00		
	AC	WO 97/45434 A1	12/04/97	PCT	C07F	9/00		
	AD	WO 98/33823 A1	08/06/98	PCT	C08F	4/42		
	AE	WO 99/02540 A1	01/21/99	PCT	C07F	17/00		
	AF	WO 99/29749 A1	06/17/99	PCT	C08F	290/04		
	AG	WO 99/32226 A1	07/01/99	PCT	B01J	31/00		
	AH	WO 00/12572 A1	03/09/00	PCT	C08F	10/06		
	AI	WO 00/37514 A1	06/29/00	PCT	C08F	210/06		
	AJ	WO 00/40625 A1	07/13/00	PCT	C08F	210/16		
	AK	WO 00/50475 A1	08/31/00	PCT	C08F	10/02		
	AL	WO 00/64952 A2	11/02/00	PCT	C08F	10/00		
	AM	WO 01/44318 A1	06/21/01	PCT	C08F	10/00		
	AN	WO 01/46273 A1	06/28/01	PCT	C08F	10/00		
EXAMINER					DATE CONSIDERED			
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant								

<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO.		SERIAL NO.	
				2002B123/2 US		10/667,585	
				APPLICANT			
				Patrick Brant, et al			
				FILING DATE		GROUP	
		September 22, 2003		1713			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AA	WO 02/070572 A2	09/12/02	PCT	C08F	210/16		
	AB	WO 02/090399 A1	11/14/02	PCT	C08F	210/06		
	AC	WO 02/50145 A1	06/27/02	PCT	C08F	236/02		

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)		
	AD	Abstract, P. Lehmus et al., <i>"Metallocene-PP produced under supercritical polymerization conditions"</i> , and list of posters, 1st BlueSky Conference on Catalytic Olefin Polymerization, 17-20 June, 2002, Sorrento, Italy
	AE	Abstract, Borealis publications, Lofgren et al., <i>"Metallocene-PP produced under supercritical conditions"</i> , 1st BlueSky Conference on Catalytic Olefin Polymerization, June 17-20, 2002, Sorrento, Italy (2002)
	AF	Abstract, Zowade et al., PL 159518, <i>"Manufacturing Low-molecular-weight Isotactic Polypropylene"</i> , 09/01/89
	AG	Alt, H.G. ET AL., <i>"Effect of the Nature of Metallocene Complexes of Group IV Metals on Their Performance in Catalytic Ethylene and Propylene Polymerization"</i> , Chem. Rev. 100, 2000, pp. 1205-1221
	AH	Akimoto, A., et al., <i>"New Developments in the Production of Metallocene LLDPE by High Pressure Polymerization"</i> , Tosoh Corp., Metallocene-Based Polyolefins 2000 (conference proceedings), pp. 287-308 (John Wiley & Sons Ltd.)
	AI	Barnhart, R.W. et al., <i>"Synthesis of Branched Polyolefins Using a Combination of Homogeneous Metallocene Mimics"</i> , J. Am. Chem. Soc. 1998, Vol. 120, pp. 1082-1083
	AJ	Bergemann, C., R. et al., <i>"Copolymerization of Ethylene and 1,5-hexadiene under High Pressure Catalyzed by a Metallocene"</i> , J. Mol. Catal. A: Chemical 116, 1997, pp. 317-322 (Elsevier)

EXAMINER	DATE CONSIDERED

**\*EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant



<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>		ATTY. DOCKET NO.	SERIAL NO.
		2002B123/2 US	10/667,585
		APPLICANT	
		Patrick Brant, et al	
		FILING DATE	GROUP
		September 22, 2003	1713
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)			
	AA	Bergemann, C., R. et al., "Copolymerization of Ethylene and Linear $\alpha$ -Olefins with a Metallocene Catalyst System under High Pressure, Part II. Comparison of Propene, 1-Butene, 1-Hexene, and 1-Decene", J. Mol. Catal. A: Chemical 105, 1996, pp. 87-91 (Elsevier)	
	AB	Britovsek, G.J.P. et al., "The Search for New-Generation Olefin Polymerization Catalysts: Life Beyond Metallocenes", Chemie Intl. Edn., 1999, Vol. 38, pp. 428-447	
	AC	Bujadoux, G.K., "Use of Bridged and Non-Bridged Metallocene Catalysts in High Pressure/High Temperature Ethylene/ $\alpha$ -Olefin Copolymerization", Metallocenes 95 Intl. Congr, Metallocene Polym. 1995, pp. 375-402, Schotland Bus. Rsrch. Publ.	
	AD	Chen, E. Y-X. et al., "Cocatalysts for Metal-Catalyzed Olefin Polymerization: Activators, Activation Processes, and Structure-Activity Relationships", Chem. Rev. 2000, Vol. 100, pp. 1391-1434	
	AE	Coates, G.W., "Precise Control of Polyolefin Stereochemistry Using Single Site Metal Catalysts", Chem. Rev. 100, 2000, pp. 1223-1252,	
	AF	Cottom, W.P., "Waxes", in Encyclo. Chem. Tech., Vol. 25, pp. 614-626, Fourth edition	
	AG	Eckstein A. et al., "Determination of Plateau Moduli and Entanglement Molecular Weights of Isotactic, Syndiotactic, and Atactic Polypropylenes Synthesized with Metallocene Catalysts", Macromolecules 31, 1998, pp. 1335-1340	
	AH	Ewen, J.A. et al., "Syndiospecific Propylene Polymerizations with Group 4 Metallocenes", J. Am. Chem. Soc., 1988, Vol. 110, pp. 6255-6256	
	AI	Gotz, C. et al., "MAO-Free Metallocene Based Catalysts in High Pressure Polymerization of Ethylene and 1-Hexene", Chem. Eng. Technol., 21, 1998, pp. 954-957 (Wiley-VCH Verlag GmbH)	
	AJ	Hauptman, E. et al., "Stereoblock Polypropylene: Ligand Effects on the stereospecificity of 2-Arylindene Zirconocene Catalysts", J. Am. Chem. Soc. 1995, Vol. 117, pp. 11586-11587	
	AK	Ittel, S.D. et al., "Late Metal Catalysts for Ethylene Homo- and Copolymerization", Chem. Rev. 2000, Vol. 100, pp. 1169-1203	
	AL	Janiak, C.; "Metallocene Catalysts for Olefin Polymerization", Metallocenes: Synthesis, Reactivity, and Applications, Vol. 2, Wiley-VCH, 1998, pp. 547-614, A. Togni and R.L. Halterman, editors	
EXAMINERAO		DATE CONSIDERED	
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant</p>			

<b>INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)		ATTY. DOCKET NO.	SERIAL NO.
		2002B123/2 US	10/667,585
		APPLICANT	
		Patrick Brant, et al	
		FILING DATE	GROUP
		September 22, 2003	1713
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)			
	AA	Luft, G., "Development of Metallocene Catalysts and their Application in the High Pressure Polymerisation Process", (Darmstadt University of Technology), PE '99, World Congress Global Technology Update Forum, March 15, 16, 1999, Zurich, Switzerland	
	AB	Resconi, L. et al., "Selectivity in Propene Polymerization with Metallocene Catalysts", Chem. Rev. 2000, Vol. 100, pp. 1253-1345	
	AC	Schaverien, C.J. et al., "Ethylene Bis(2-indenyl) Zirconocenes: A New Class of Diastereomeric Metallocenes for the (Co)Polymerization of $\alpha$ -Olefins", Organometallics 2001, Vol. 20, No. 16, pp. 3436-3452, (ACI, Columbus, Ohio), Aug. 2001	
	AD	Scollard, J.D. et al., "Polymerization of $\alpha$ -Olefins by Chelating Diamide Complexes of Titanium", Macromolecules, 1996, Vol. 29, pp. 5241-5243	
	AE	Smith, B.D. et al., "Thermodynamic Data for Pure Compounds Part A, Hydrocarbons and Ketones Physical Sciences Data", Vol. 25, Elsevier, New York, 1986, pp. 308-309.	
	AF	Stephenson et al., "Handbook of the Thermodynamics of Organic Compounds", Elsevier Science Publ. NY, p. 75	
	AG	Stratton, A.W., "Waxes", in Encyclo. Polymer Science and Eng., Vol. 17, pp. 784-795, Second Edition	
	AH	Suzuki, N. et al., "Olefin Polymerization Using Highly Congested Ansa-Metallocenes Under High Pressure: Formation Of Superhigh Molecular Weight Polyolefins", Macromolecules, 2000, Vol. 33, No. 3, pp. 754-759	
	AI	Yano, A., et al., "Homo- and Copolymerization of Ethylene at High Temperature with Cationic Zirconocene Catalysts", Macromol. Chem. Phys. 200, No. 4, pp. 917-923 (Wiley-VCH Verlag GmbH, 1999)	
	AJ	Yano, A., et al., "Homo- and Copolymerization of Ethylene by Cationic Hafnocene Catalysts based on Tetrakis(pentafluorophenyl)", Macromol. Chem. Phys. 200, No. 4, 1999, pp. 924-932, (Wiley-VCH Verlag GmbH)	
	AK	Yano, A., et al., "Novel Zirconocene Catalysts for the Production of High molecular Weight LLDPE in High Temperature Polymerization", Macromol. Chem. Phys. 200, No. 4, 1999, pp. 933-941, (Wiley-VCH Verlag GmbH)	
	AL	USSN 10/667,586, filed 9/22/03, entitled "Supercritical Polymerization Process and Polymers Produced Therefrom", by Palanisamy Arjunan et al.	
EXAMINERAO		DATE CONSIDERED	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant			